RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/019,198

Source: PCT10

Date Processed by STIC: 3/6/03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

> http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission User Manual - ePAVE)

2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   > Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 10/019,198

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 _____ Wrapped Nucleics Wrapped Aminos — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 _____ Invalid Line Length — The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 _____ Misaligned Amino Numbering — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 _____ Non-ASCII — The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 _____ Variable Length — Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 _____ PatentIn 2.0 "bug" — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 _____ Skipped Sequences (OLD RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 _____ Skipped Sequences (NEW RULES) — Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 _____ Use of n's or Xaa's (NEW RULES) — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 √ Invalid <213> Response — Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 _____ Use of <220> — Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 _____ PatentIn 2.0 "bug" — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 _____ Misuse of n — n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

Does Not Comply   PCT10

Correcte~ ~· ·~··~ Needed

RAW SEQUENCE LISTING   DATE: 03/06/2003
PATENT APPLICATION: **US/10/019,198**   TIME: 13:10:22

Input Set : **A:\9013.42.txt**
Output Set: **N:\CRF4\03062003\J019198.raw**

```
      3 <110> APPLICANT: UNIVERSITY COURT OF THE UNIVERSTIY OF DUNDEE
      5 <120> TITLE OF INVENTION: USE OF PEPTIDES
      7 <130> FILE REFERENCE: 9013.42
      9 <140> CURRENT APPLICATION NUMBER: US 10/019,198
C--> 10 <141> CURRENT FILING DATE: 2001-12-20
     12 <150> PRIOR APPLICATION NUMBER: PCT/GB00/02414
     13 <151> PRIOR FILING DATE: 2000-06-21
     15 <150> PRIOR APPLICATION NUMBER: GB9914480.0
     16 <151> PRIOR FILING DATE: 1999-06-21
     18 <160> NUMBER OF SEQ ID NOS: 6
     20 <170> SOFTWARE: PatentIn version 3.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 12
     24 <212> TYPE: PRT
     25 <213> ORGANISM: Homo sapiens
     27 <400> SEQUENCE: 1
     29 Lys Lys Arg Tyr Asp Arg Glu Phe Leu Leu Gly Phe
     30 1               5                  10
     32 <210> SEQ ID NO: 2
     33 <211> LENGTH: 12
     34 <212> TYPE: PRT
     35 <213> ORGANISM: Triticum aestivum
     37 <400> SEQUENCE: 2
     39 Arg Val Arg Tyr Ser Arg Asp Gln Leu Leu Asp Leu
     40 1               5                  10
     42 <210> SEQ ID NO: 3
     43 <211> LENGTH: 10
     44 <212> TYPE: PRT
     45 <213> ORGANISM: Homo sapiens
     47 <220> FEATURE:
     48 <221> NAME/KEY: VARIANT
     49 <222> LOCATION: (10)..(10)
     50 <223> OTHER INFORMATION: Xaa REPRESENTS L OR M
     53 <400> SEQUENCE: 3
W--> 55 Arg Ile Ile Tyr Asp Arg Lys Phe Leu Xaa
     56 1               5                  10
     58 <210> SEQ ID NO: 4
     59 <211> LENGTH: 7
     60 <212> TYPE: PRT
C--> 61 <213> ORGANISM: Artificial/Unknown
     63 <220> FEATURE:
     64 <221> NAME/KEY: VARIANT
     65 <222> LOCATION: (2)..(5)
```

_can only be one or the other, not both
See error summary sheet item 10

RAW SEQUENCE LISTING   DATE: 03/06/2003
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Input Set : **A:\9013.42.txt**
Output Set: **N:\CRF4\03062003\J019198.raw**

```
      66 <223> OTHER INFORMATION: Xaa REPRESENTS ANY AMINO ACID
      69 <220> FEATURE:
      70 <221> NAME/KEY: PEPTIDE
      71 <222> LOCATION: (1)..(7)
      72 <223> OTHER INFORMATION: consensus peptide
      75 <220> FEATURE:
      76 <221> NAME/KEY: VARIANT
      77 <222> LOCATION: (7)..(7)
      78 <223> OTHER INFORMATION: Xaa REPRESENTS LEU, MET OR PHE
      81 <400> SEQUENCE: 4
W--> 83 Tyr Xaa Xaa Xaa Xaa Leu Xaa
      84 1               5
      86 <210> SEQ ID NO: 5
      87 <211> LENGTH: 10
      88 <212> TYPE: PRT
C--> 89 <213> ORGANISM: Artificial/Unknown        - some error
      91 <220> FEATURE:
      92 <221> NAME/KEY: VARIANT
      93 <222> LOCATION: (1)..(1)
      94 <223> OTHER INFORMATION: Xaa REPRESENTS K OR R
      97 <220> FEATURE:
      98 <221> NAME/KEY: PEPTIDE
      99 <222> LOCATION: (1)..(10)
     100 <223> OTHER INFORMATION: consensus peptide
     103 <220> FEATURE:
     104 <221> NAME/KEY: VARIANT
     105 <222> LOCATION: (2)..(3)
     106 <223> OTHER INFORMATION: Xaa REPRESENTS ANY AMINO ACID
     109 <220> FEATURE:
     110 <221> NAME/KEY: VARIANT
     111 <222> LOCATION: (5)..(7)
     112 <223> OTHER INFORMATION: Xaa REPRESENTS ANY AMINO ACID
     115 <220> FEATURE:
     116 <221> NAME/KEY: VARIANT
     117 <222> LOCATION: (8)..(8)
     118 <223> OTHER INFORMATION: Xaa REPRESENTS F OR Q
     121 <220> FEATURE:
     122 <221> NAME/KEY: VARIANT
     123 <222> LOCATION: (10)..(10)
     124 <223> OTHER INFORMATION: Xaa REPRESENTS L OR M
     127 <400> SEQUENCE: 5
W--> 129 Xaa Xaa Xaa Tyr Xaa Xaa Xaa Xaa Leu Xaa
     130 1               5                   10
     132 <210> SEQ ID NO: 6
     133 <211> LENGTH: 16
     134 <212> TYPE: PRT
C--> 135 <213> ORGANISM: Artificial/Unknown   - some error
     137 <220> FEATURE:
     138 <221> NAME/KEY: PEPTIDE
```

RAW SEQUENCE LISTING   DATE: 03/06/2003
PATENT APPLICATION: **US/10/019,198**   TIME: 13:10:22

Input Set : **A:\9013.42.txt**
Output Set: **N:\CRF4\03062003\J019198.raw**

```
139 <222> LOCATION: (1)..(16)
140 <223> OTHER INFORMATION: penetratin: membrane translocation peptide
143 <400> SEQUENCE: 6
145 Arg Gln Ile Lys Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
146 1               5                   10                  15
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/06/2003
PATENT APPLICATION: **US/10/019,198**   TIME: 13:10:23

Input Set : **A:\9013.42.txt**
Output Set: **N:\CRF4\03062003\J019198.raw**

<u>Please Note:</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 10
Seq#:4; Xaa Pos. 2,3,4,5,7
Seq#:5; Xaa Pos. 1,2,3,5,6,7,8,10

VERIFICATION SUMMARY   DATE: 03/06/2003
PATENT APPLICATION: **US/10/019,198**   TIME: 13:10:23

Input Set : **A:\9013.42.txt**
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```
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:61 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:89 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:135 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
```